

Land Conservation Conference 2020 Vision & Beyond: Climate, Conservation & Collaboration



Delmarva Restoration and Conservation Network

presented by Dan Murphy, U.S. Fish & Wildlife Service & Josh Hastings, Lower Shore Land Trust

Wednesday, May 20th, 2020

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Merritt Pridgeon



Forever Maryland May 20, 2020



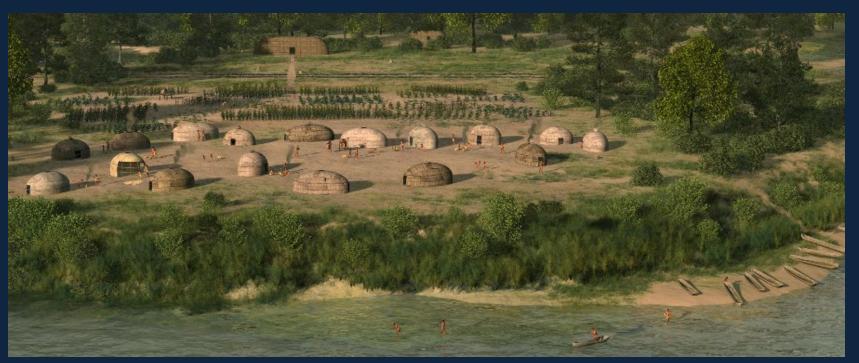


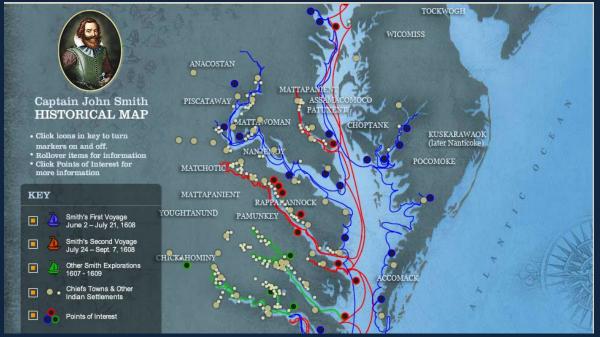




DELMARVA

- Three States and 13 Counties
- 6,000 Square Miles
- 2,500 Miles of Coastline
- Average Elevation 35 feet
- 180 Miles from North to South
- Up to 60 Miles East to West
- Population 1,444,288





20,000 Accomacks, Accohannocks, Nanticokes, Choptanks, Assateagues, Wicomicos, and Pocomokes in 1600

Spanish Missionaries – 1570

John Smith – 1608

Late 1700's

140 Nanticokes120,000 Europeans

Agriculture



Land Use 48% Agriculture 7% Urban

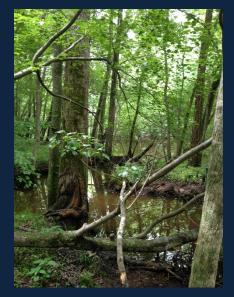
Prior to 1930 – Bread Basket of the Mid-Atlantic: Dairy Farms, Orchards, Tomatoes, Strawberries, Sweet Corn, Snap Beans – Many Small Farms

Now - Chickens and Chicken Food – Fewer, Larger Farms



















Commercial Fishing

Oysters



Blue Crabs



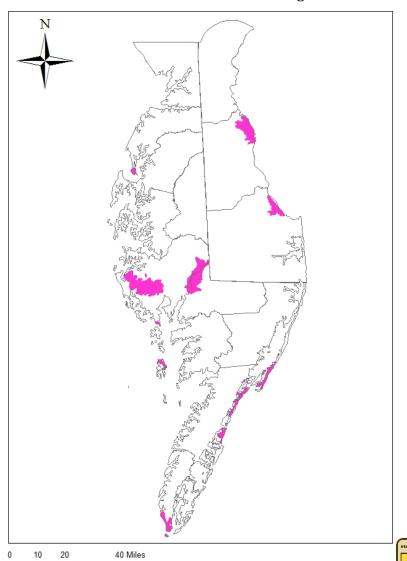
Economics of Delmarva's Natural Lands, Farmland, and Open Space*

- Outdoor enthusiasts spend up to \$3.9 billion per year supporting 27,900 jobs;
- 7,000 farms yield \$2.8 billion in farm products per year on 1.3 million acres;
- Commercial fishing in the Chesapeake Bay is worth \$300 million per year;
- Delmarva Peninsula fishery leads the nation in total weight of catch;
- All told, contributes over \$15 billion in ecological Services annually, supporting important Industries like fisheries and tourism;
- Conservation, aquaculture, and conservation visitor spending contributed \$270 million dollars to Virginia's Delmarva in 2016.

^{*}A 2012 study on the economics of natural areas (including farmland) on Delmarva by Southwick Associates & a socio-economic study by the Virginia Coastal Zone Management Program.



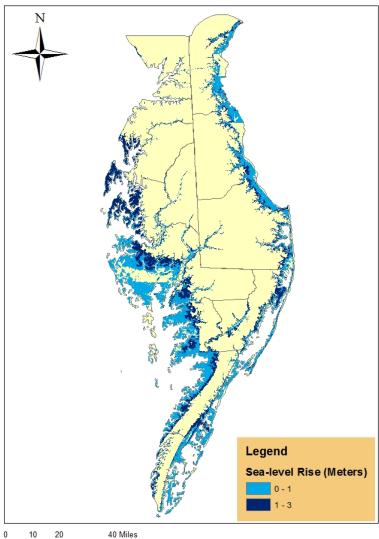
Delmarva Restoration and Conservation Network Delmarva National Wildlife Refuges



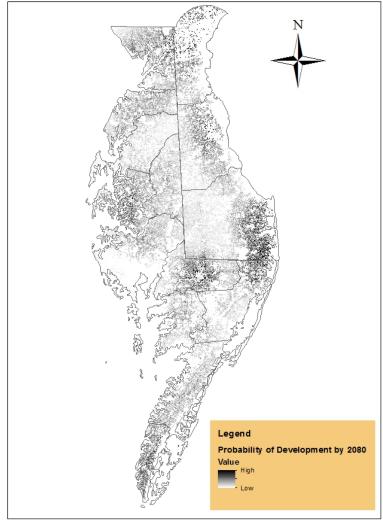




Delmarva Restoration and Conservation Network Sea-level Rise



Delmarva Restoration and Conservation Network Probability of Development by 2080





10 20

40 Miles



Delmarva Restoration and Conservation Network



Strategic Action Plan

- Conservation Design + Business Plan
- Protect the Delmarva countryside.
- What needs to be done and where?





- How we will work together to get support and funding for voluntary restoration and conservation on Delmarva.
- 102 People from 42 Organizations

The Delmarva Restoration and Conservation Network Vision, Mission, and Goals

Mission

To restore and conserve Delmarva's landscapes, waterways, and shorelines that are special to its people, fundamental to its economy, and vital for its native fish, wildlife, and plants.

Vision

We envision a Delmarva where native fish and wildlife thrive; the fabric of healthy natural and working lands and waters enrich the lives of those who live, work, and play on the land; and rich forestlands and coastal areas support and sustain present and future generations.

Delmarva Restoration and Conservation Network Goals

Goal 1 – Shape and support a network of cooperative alliances among the diversity of people, governments, organizations, and industries that rely on Delmarva's natural resources.

Goal 2 –Enhance the Sustainability of resource-based industries -- including fisheries, agriculture, forest products, tourism, and outdoor recreation -- that enable the economies of Delmarva communities to thrive.

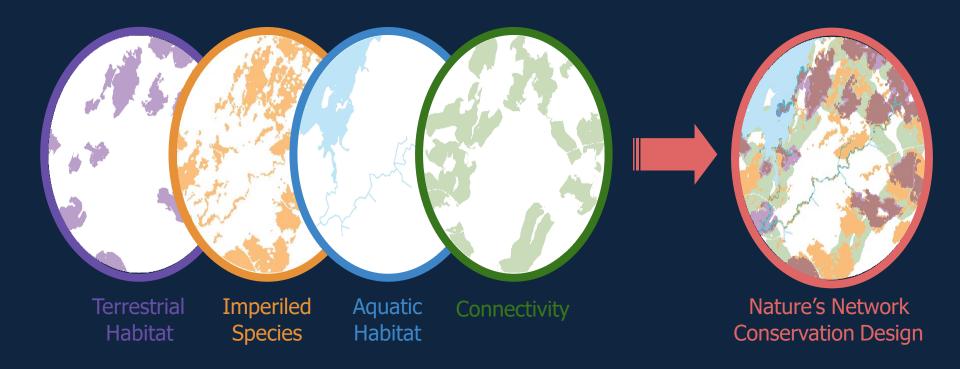
Goal 3 - Identify, conserve, restore, and manage the vital network of working and natural lands and waters that support a diversity of habitats for native fish and wildlife, and maintain resiliency in the face of future development and climate change for present and future generations.

Delmarva Restoration and Conservation Network Representative Species (47)

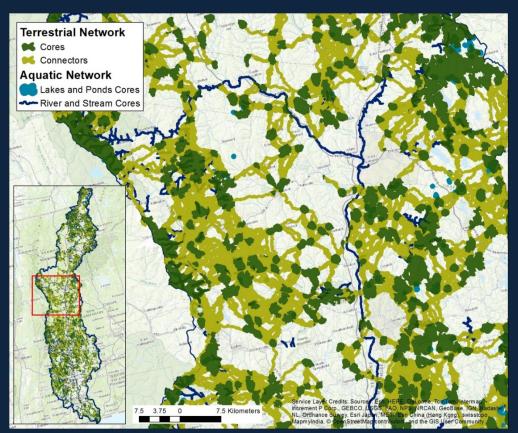


The conservation design

www.naturesnetwork.org



The key features of each of the four components are integrated in one map for Nature's Network Conservation Design, but many complementary data layers are available to support conservation planning.

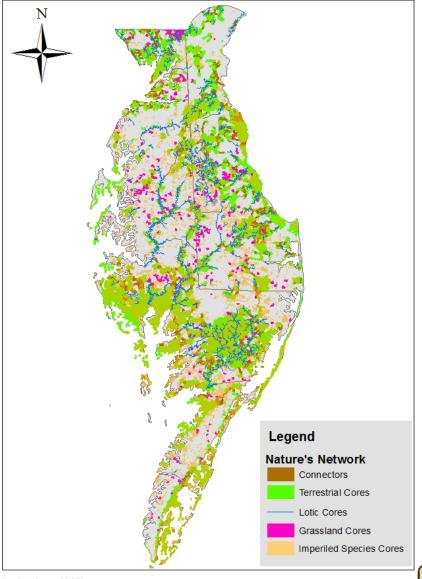




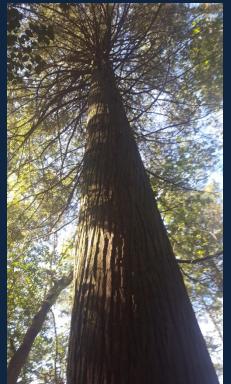




Delmarva Restoration and Conservation Network Nature's Network Core Map



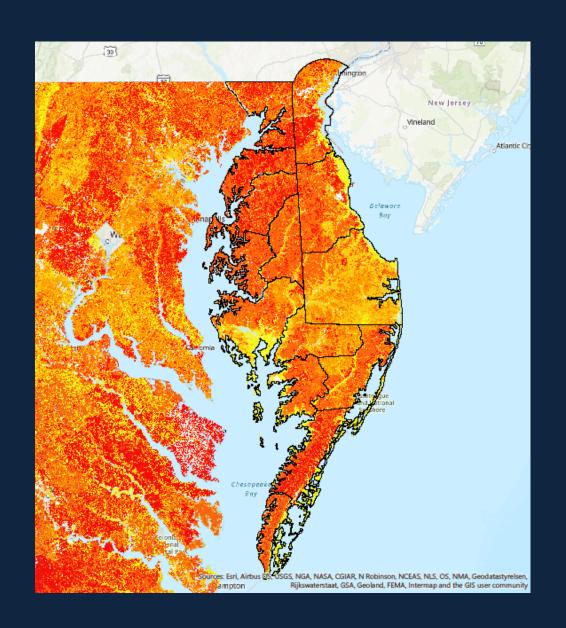








Soil Productivity



Structured Decision Making Workshop – Logic Scoring of **Preference Model** Delmarva RCN Fish & Wildlife Habitat DELMARVA RCD WORKSHOP - FEEDBACK FORMS - OCTOBER 9, 2019 LSP Framework Connected Networks PLEASE RETURN BEFORE YOU DEPART THE WORKSHOP CONSERVATION FUND Station 1 - Fish & Wildlife Habitat Review Maps and provide feedback below: 1a) Connected Network Features (111) 1b) Connected Networks Parcel Map (111) 1c) Representative Species Landscape Capability (112) 1d) Representative Species Parcel Map (112) Coordinate System: Albers Map prepared by The Conservation Fund A. How would you weight the relative factors for parcels to meet fish and wildlife habitat protection objectives? (Total should equal 100) Fish and Wildlife Connected Networks Representative Species Landscape Capability Proximity to Existing Protected/Managed Lands How would you weight the relative factors for parcels to meet fish and wildlife habitat ptection objectives? (Total should equal 100) tal Acreage of Connected Network Designations within the Parcel rcent of Parcel with Connected Network Designations (50-100%) tal Parcel Size What percent suitabilty would you give for the number of representative species likely to cur on a parcel (values must be between 0-100)? # Species % Satisfaction D. Are there any other considerations for fish and wildlife habitat you would like to see given the available data on the maps? Protected Lands (PADUS) Easements (NCED) Delmarva RCN LSP parcels (7,637) (Optional) Name:

26 - 27

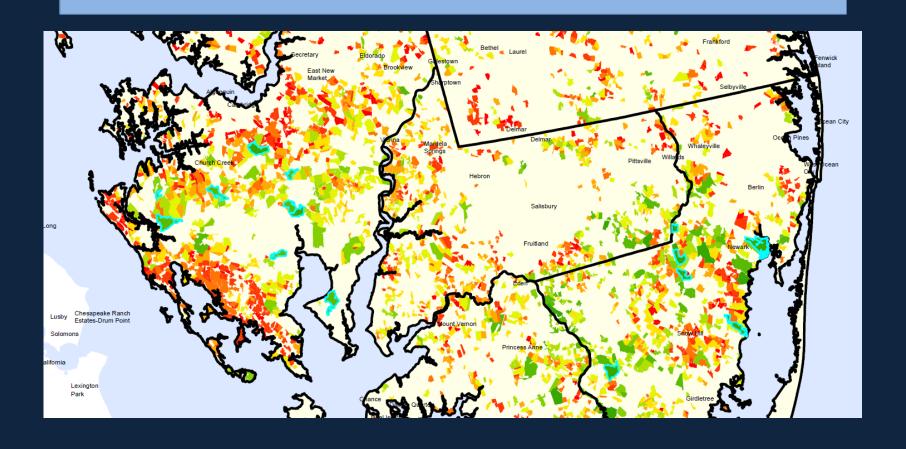
Delmarva RCN Counties

Station 2 - Water Quality

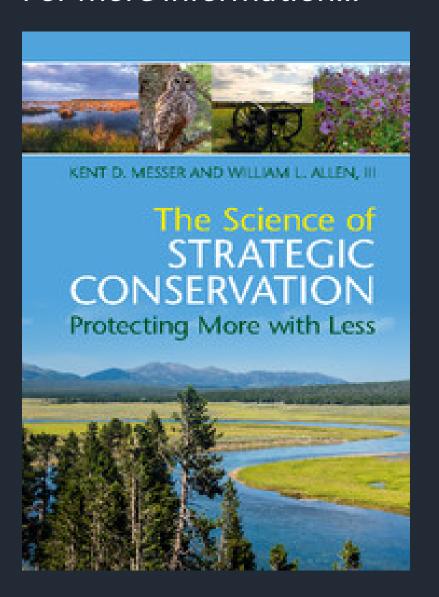
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Optimization

Method	# Projects	Acres	Mean LSP Score (0-100)	Aggregate LSP Value
Cost-Effective Analysis	24	12,502	86.0	2,065
Rank-Based Method	21	9,987	72.1	1,515



For more information...



- Publisher: Cambridge University Press
- <u>Kent D. Messer</u>, University of Delaware, <u>William L. Allen, III</u>, The Conservation Fund, Chapel Hill, USA
- Print publication year: 2019
- Online ISBN: 9781108123778



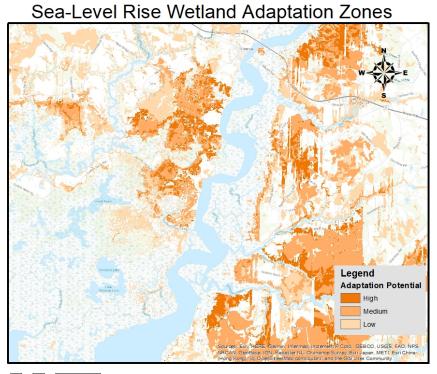








Delmarva Restoration and Conservation Network Pilot Project













Delmarva Restoration and Conservation Network

Next Steps:

- Follow up on creation of <u>DRCN Story Map</u>
- Finalize physical report, print, and distribute to decision makers and partners
- Finalize the Strategic Action Plan
- Support distinct conservation projects under a shared vision – with the use of private, local, state, federal, and collective funds



Delmarva Restoration and Conservation Network

How is this more than just another Regional Partnership?

RELATIONSHIPS:

- Build from bottom up/no egos
- Network for Landscape Conservation

INNOVATIVE:

- Marsh migration corridors & giving a solution to State gov
- Partnership with Chesapeake
 Conservancy 1-meter resolution
- Utilize new (potential) resources including <u>Chesapeake Watershed</u> <u>Investments for Landscape Defense</u> (<u>Chesapeake WILD</u>) <u>Act</u>





Delmarva Restoration and Conservation Network:

Our Challenges & Tips...

Challenges:

- Corporations aren't coming to save the day, unless...
 - Employee engagement or "Projects or Programs"
- Foundations usually want specific results
- "Funding the bus and the bus driver"

Tips:

- · Go BIG. Its more fundable.
- Go slow (minimal social media or web presence)
- Regional approach is STILL more acceptable with local politics
- University partnerships & technology STILL important
- Local NGO lead with national/regional backing...
- Dream it. Do it. (No, really...)

Delmarva Restoration & Conservation Network

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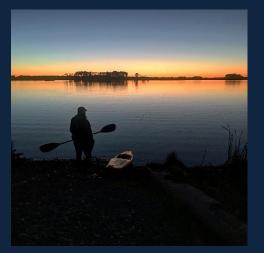
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